

REMARKS

Claims 1-57, 102, 103 and 155-166 are currently pending.

Claims 1 and 2 are amended herewith.

Claims 7, 8, 10-13, 19 and 37 to 39 are withdrawn.

New claims 168 to 171 are entered.

SPECIES ELECTION

In the office action of December 14, 2006, the Examiner requested Species selection as follows:

- A. For claims 7-13, species of step of "identifying", such as identifying configuration that matches configuration of a bound gauge, does not match configuration of a bound gauge, identifying by statistical analysis, by clustering, etc.
- B. For claims 18, 19 - species of reconstruction steps, such as based on scoring maps, or on maps clustering.
- C. For claims 36-39 - species of assay types, such as functional., binding, cellular, flow-through, etc.

The Applicant responds by electing claim 9 from species group A, claim 18, from species group B and claim 36 from species group C. Claim 1 is a generic claim and the Applicant reserves the right to request rejoinder of withdrawn claims after allowance of the generic claim.

As a result of these species elections the following claims are to be examined to the extent that they belong to the elected species:

1-6; 8 (to the extent that it is included in claim 9), 9; 14-18; 20-36; 40-57; 102, 103 and 155 to 163 and new claims 168 to 171.

In addition, claims 164 to 167 which are not affected by the species selection should be examined.

SUPPORT FOR AMENDMENTS

Independent claim 1 has been amended to include further limitations that are supported at least on pages 12 (lines 1 to 18), 21 (lines 15 to 25), 36 (whole page) and 76 (whole page) of the specification.

Amendments to claim 2 are supported at least at page 76 (lines 30 to 34). And page 21, (line 21).

The Applicant respectfully suggests than none of the amendments introduce new matter into the application.

SUPPORT FOR NEW CLAIMS

Support for the limitation "wherein said spanning covers at least 50% of points in said space that include a acid." of claim 168 can be found in the specification at least at page 36 of the specification.

Support for the limitation "wherein said space includes a portion covering the range of between 4 and 12 angstrom, said portion spanned at least 50%." of claim 169 can be found in the specification at least at on page 77 "Gauge lengths".

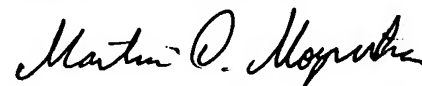
Support for the limitation "wherein said space includes a portion covering the range of between 8 and 12 angstrom, said portion spanned at least 50%." of claim 170 can be found in the specification at least at on page 77 "Gauge lengths".

Support for the limitation "wherein said potential scaffold is judged rigid if it is rotationally rigid." of claim 171 can be found in the specification at least at page 75, line 5.

The Applicant respectfully suggests that no new matter is introduced into the application by new claims 168 to 171 because each claim is amply supported by the specification as originally filed.

Prompt examination on the merits is respectfully and earnestly solicited.

Respectfully submitted,



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